

Active Recombinant Full Length Human ubiquitin conjugating enzyme E2 D1 Protein, Tag Free

Cat. No. UBE2D1-02HFL Lot. No. (See product label)

SPECIFICATION

Product Overview

Active Recombinant full length human ubiquitin conjugating enzyme E2 D1 Protein without tag was expressed in E. coli.

Species

Human

Source

E.coli

ProteinLength

1-147aa

Description

Ubiquitin-conjugating Enzyme H5a (UbcH5a), also known as Ubiquitin-conjugating Enzyme E2D 1 (UBE2D1), is a ubiquitously expressed protein that is related to Stimulator of Iron Transport (SFT). Human UbcH5a/UBE2D1 has a predicted molecular weight of 17 kDa and shares 89% and 88% amino acid (aa) sequence identity with the related family members UbcH5b and UbcH5c, respectively. Human UbcH5a/UBE2D1 shares 100% aa sequence identity with the mouse and rat orthologs. UbcH5a/UBE2D1 has a conserved E2 catalytic core domain that contains an active site cysteine residue, and it interacts with a variety of HECT and RING finger Ubiquitin ligases (E3) to mediate the ubiquitination of specific target proteins). UbcH5a/UBE2D1 interacts with the E3, E6-AP, to conjugate Ubiquitin to the tumor suppressor, p53. Additional protein targets of UbcH5a/UBE2D1 include c-Fos, RIP1, and HIF-1. Pathologically, UbcH5a/UBE2D1 is implicated in protein degradation during cancer and immune responses.

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Tag	Non
Bio-activity	Recombinant Human Ubch5a/UBE2D1 is a member of the Ubiquitin-conjugating (E2) enzyme family that receives Ubiquitin from a Ubiquitinactivating (E1) enzyme and subsequently interacts with a Ubiquitin ligase (E3) to conjugate Ubiquitin to substrate proteins. Reaction conditions will need to be optimized for each specific application. We recommend an initial Recombinant Human Ubch5a/UBE2D1 concentration of 0.1-1 μ M.
Molecular Mass	17 kDa
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue stain.
Storage	Store the unopened product at -70 centigrade. Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Do not use past expiration date.
Storage Buffer	Supplied as a solution in HEPES, NaCl, TCEP and Glycerol.
Shipping	The product is shipped with dry ice or equivalent.
References	<ol style="list-style-type: none"> 1. Scheffner, M. et al. (1994) Proc. Natl. Acad. Sci. USA 91:8797. 2. Gehrke, S. et al. (2003) Blood 101:3288. 3. Jensen, J. et al. (1995) J. Biol. Chem. 270:30408.

GENE INFORMATION

Gene Name	UBE2D1 ubiquitin conjugating enzyme E2 D1 [Homo sapiens (human)]
Official Symbol	UBE2D1

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Synonyms	UBE2D1; ubiquitin-conjugating enzyme E2D 1; SFT, stimulator of Fe transport , ubiquitin conjugating enzyme E2D 1 (UBC4/5 homolog, yeast); ubiquitin-conjugating enzyme E2 D1; E2(17)KB1; UBC4/5; UBCH5; UbcH5A; UBC4/5 homolog; stimulator of Fe transport; ubiquitin-protein ligase D1; ubiquitin carrier protein D1; ubiquitin-conjugating enzyme E2(17)KB 1; ubiquitin-conjugating enzyme E2-17 kDa 1; ubiquitin-conjugating enzyme E2D 1 (UBC4/5 homolog, yeast); SFT; UBCH5A
Gene ID	7321
mRNA Refseq	NM_001204880
Protein Refseq	NP_001191809
MIM	602961
UniProt ID	P51668

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